What is Claimed is:

[c1]	A method of verifying a data preparation for an article constructed of a plurality
	of design layers, the data preparation being stated in terms of an instruction
	algorithm, the method comprising the steps of:
	restating the instruction algorithm in terms of at least two fundamental algorithms;
	creating a graphical representation for each fundamental algorithm;
	combining the graphical representations corresponding to each
	fundamental algorithm according to the restated instruction algorithm to
	form a combined graphical representation; and
	determining whether the data preparation is correct based on the
	combined graphical representation.
[c2]	The method of claim 1, wherein the step of restating includes organizing the instruction algorithm according to group theory operators.
[c3]	The method of claim 1, wherein the step of determining includes determining a
[00]	polarity of the product.
	polarity of the product.
[c4]	The method of claim 3, further comprising the step of inverting the combined
	graphical representation prior to the determining step.
[c5]	The method of claim 1, wherein the step of restating is a reiterative process.
[c6]	The method of claim 1, wherein the article is for one of: an etching and a mask.
[c7]	The method of claim 1, wherein the article includes a plurality of discrete
	segments for which verification is performed.
[c8]	The method of claim 1, whorein the determining area included in the contract of the contract o
[00]	The method of claim 1, wherein the determining step includes implementing the
	combined graphical representation and comparing the result to the article.
[c9]	The method of claim 1, wherein the determining step includes comparing the
	combined graphical representation to the article.
[c10]	
·	A system for verifying a data preparation for an article constructed of a plurality

of design layers, the system comprising:

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[c11]

[c12]

[c13]

means for restating an instruction algorithm representative of the data preparation for the article in terms of at least two fundamental algorithms;

means for creating a graphical representation for each fundamental algorithm;

means for combining the graphical representations corresponding to the at least two fundamental algorithms to form a combined graphical representation; and

means for determining whether data preparation is correct based on the combined graphical representation.

The system of claim 10, wherein the means for determining implements the combined graphical representation and compares the result to the article.

The system of claim 10, wherein the means for determining compares the combined graphical representation to the article.

A computer program product comprising a computer useable medium having computer readable program code embodied therein for verifying a data preparation for an article constructed of a plurality of design layers, the program product comprising:

program code configured to restate an instruction algorithm representative of the data preparation for the article in terms of at least two fundamental algorithms;

program code configured to create a graphical representation for each fundamental algorithm;

program code configured to combine the graphical representations corresponding to the at least two fundamental algorithms to form a combined graphical representation; and

program code configured to determine whether the data preparation is correct based on the combined graphical representation.

[c14] The program product of claim 13, further comprising program code configured to determine a polarity of the product.

- [c15] The program product of claim 14, further comprising program code configured to invert the combined graphical representation.
 [c16] The program product of claim 13, wherein the article includes a plurality of discrete segments for which verification is performed.
 [c17] The program product of claim 13, determine implements the combined
- graphical representation and compares the result to the article.
- [c18] The program product of claim 13, wherein the program code configured to determine compares the combined graphical representation to the article.